# Routing Requests

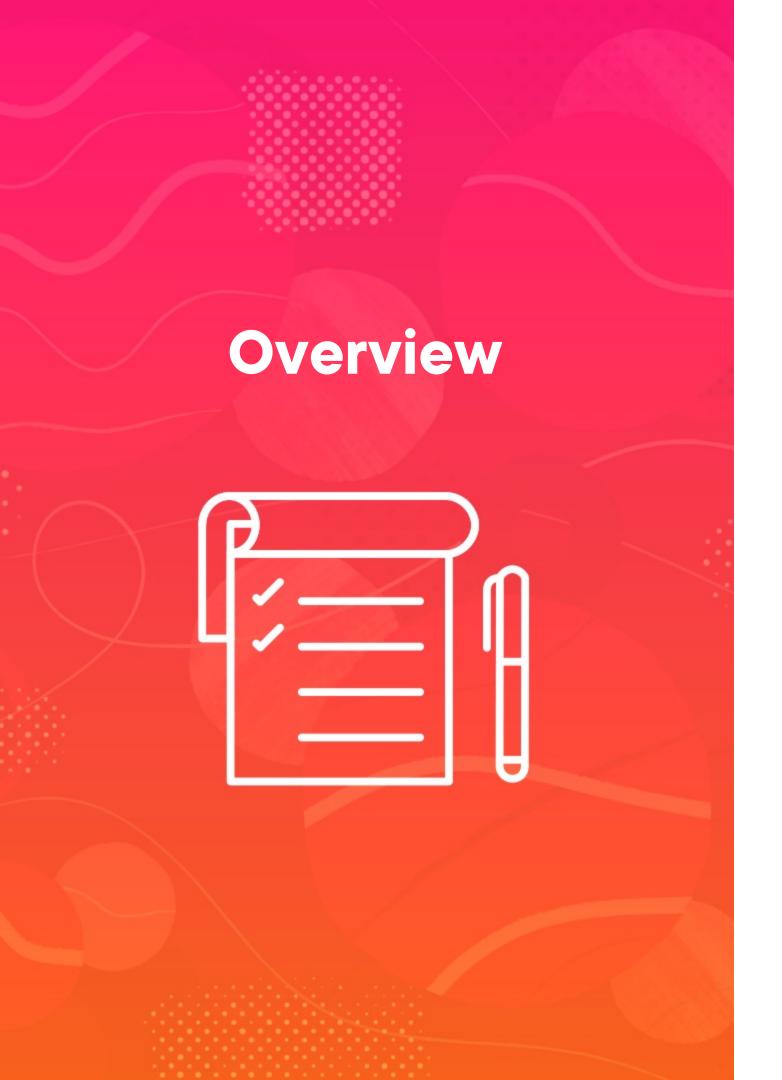


Michael VanSickle

Author

@vansimke



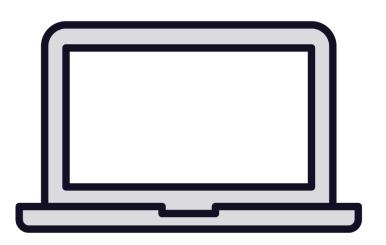


**Routing Requirements** 

**Basic Routing** 

**Parametric Routing** 

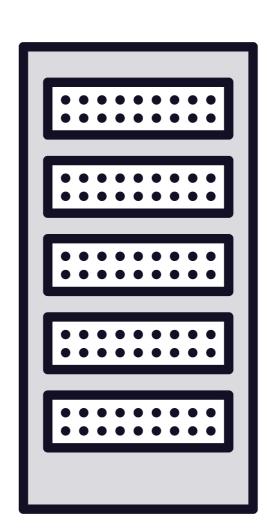
**Common Third-party Routers** 



Request a single resource /customers

Request a resource collection /customers/

Request a resource by parameter /customers/{id}



## **Basic Routing**

```
http.Handle(pattern string, handler http.Handler)

// request a single resource
http.Handle("/customers", handler) // request the customers resource

// request a resource collection
http.Handle("/customers/", handler) // request the customers collection
```



**String Splitting** 

```
func handlerFunc(w http.ResponseWriter, r *http.Request) {
```

}



#### **String Splitting**

```
func handlerFunc(w http.ResponseWriter, r *http.Request) {
   path := r.URL.Path // "/customers/123/address/city"
```

}



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func handlerFunc(w http.ResponseWriter, r *http.Request) {
   path := r.URL.Path // "/customers/123/address/city"
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#### **String Splitting**

```
func handlerFunc(w http.ResponseWriter, r *http.Request) {
   path := r.URL.Path // "/customers/123/address/city"

   parts := strings.Split(path, "/")
   // [ "" "customers" "123" "address" "city" ]
}
```

#### **String Splitting**

```
func handlerFunc(w http.ResponseWriter, r *http.Request) {
    path := r.URL.Path // "/customers/123/address/city"

    parts := strings.Split(path, "/")
    // [ "" "customers" "123" "address" "city" ]

    // validate the parameters and route the request
}
```



```
func handlerFunc(w http.ResponseWriter, r *http.Request) {
   path := r.URL.Path // "/customers/123/address/city"
```

```
var pattern = `^\/customers\/(\d+?)\/address\/(\S+?)`

func handlerFunc(w http.ResponseWriter, r *http.Request) {
   path := r.URL.Path // "/customers/123/address/city"
}
```

```
var pattern = `^\/customers\/(\d+?)\/address\/(\S+?)`

func handlerFunc(w http.ResponseWriter, r *http.Request) {
   path := r.URL.Path // "/customers/123/address/city"
}
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```
var pattern = `^\/customers\/(\d+?)\/address\/(\S+?)`

func handlerFunc(w http.ResponseWriter, r *http.Request) {
   path := r.URL.Path // "/customers/123/address/city"
}
```

```
var pattern = `^\/customers\/(\d+?)\/address\/(\S+?)`
var exp regexp.Regexp = regexp.MustCompile(pattern)

func handlerFunc(w http.ResponseWriter, r *http.Request) {
   path := r.URL.Path // "/customers/123/address/city"
```

```
var pattern = `^\/customers\/(\d+?)\/address\/(\S+?)`
var exp regexp.Regexp = regexp.MustCompile(pattern)

func handlerFunc(w http.ResponseWriter, r *http.Request) {
   path := r.URL.Path // "/customers/123/address/city"

   matches := exp.FindStringSubmatch(path)
   // [ "/customers/123/address/city" "123" "city" ]
}
```

```
var pattern = `^\/customers\/(\d+?)\/address\/(\S+?)`
var exp regexp.Regexp = regexp.MustCompile(pattern)

func handlerFunc(w http.ResponseWriter, r *http.Request) {
   path := r.URL.Path // "/customers/123/address/city"

   matches := exp.FindStringSubmatch(path)
   // [ "/customers/123/address/city" "123" "city" ]

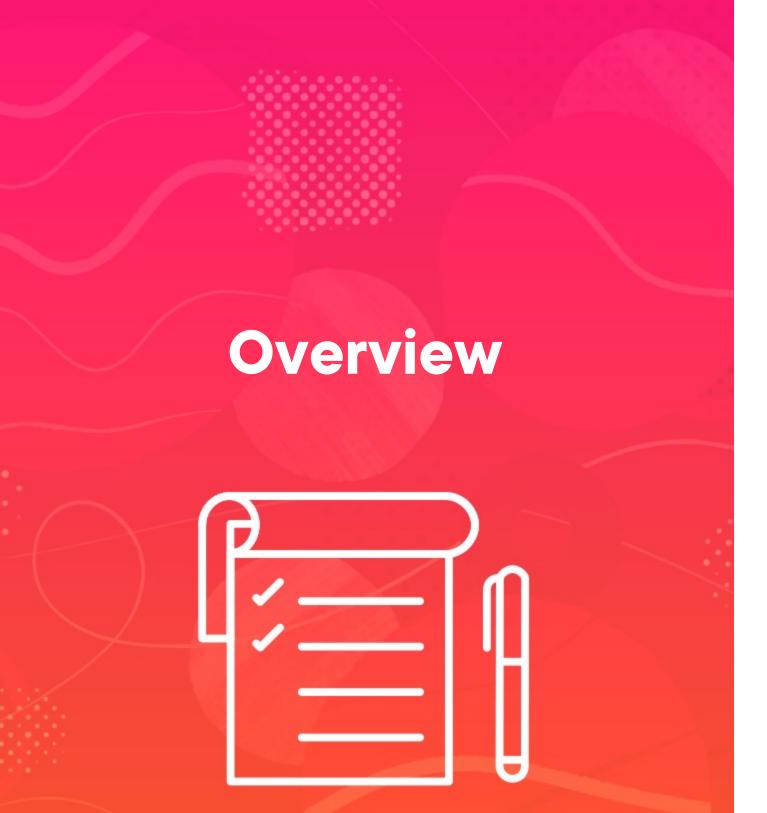
   // validate the parameters and route the request
}
```

## **Common Third-Party Routers**

gorilla/mux

go-chi/chi





## **Routing Requirements**

**Basic Routing** 

#### **Parametric Routing**

- String splitting
- Regular expressions

## **Common Third-party Routers**

- gorilla/mux
- go-chi/chi